

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-10 (Canceled)

Claim 11 (Currently Amended): A process for the purification of aliphatic diamines, comprising the step of

- a) carrying out an hydrogenation treatment on the diamine in a medium in the presence of a catalyst comprising platinum, palladium, ruthenium, rhodium, iridium, nickel or cobalt, wherein the medium is a reaction medium resulting from the synthesis of the diamine by hydrogenation of a dinitrile compound, and
- b) recovering of the purified diamine.

Claim 12 (Currently Amended): The process according to Claim 11, wherein in step a) the catalyst of the hydrogenation is a supported catalyst, the support of the catalytic element being charcoals, titanium, ~~zirconium oxides~~ zirconium oxides, magnesium oxides, or alumina.

Claim 13 (Currently Amended): The process according to Claim 11, wherein in step b), the diamine is extracted from the medium of step a) after having performed ~~performed a~~ hydrogenation by distillation.

Claim 14 (Currently Amended): The process according to Claim 12, wherein in step b), the diamine is extracted from the medium of step a) after having performed ~~performed a~~ hydrogenation by distillation.

Claims 15 and 16 (Canceled)

Claim 17 (Currently Amended): The process according to Claim 11, ~~16~~, wherein the dinitrile present in the resulting reaction medium is separated before performing step a).

Claim 18 (Previously Presented): The process according to Claim 11, wherein in step a), the catalyst is in the form of a stationary or fluidized bed.

Claim 19 (Previously Presented): The process according to Claim 11, wherein in step a), the catalyst is in the form of a catalyst suspension.

Claim 20 (Previously Presented): The process according to Claim 11, wherein in step a), the medium comprising the diamine is fed to a distillation column and a portion of the liquid stream circulating in the distillation column is withdrawn from a withdrawal point situated along the distillation column and is subjected to the hydrogenation reaction in the presence of the catalyst, said stream withdrawn after hydrogenation being fed back to the column upstream or downstream of the withdrawal point.

Claim 21 (Currently Amended): The process according to ~~one~~ claim 20, wherein in step a) the medium is a reaction medium resulting from the synthesis of the diamine.

Claim 22 (Previously Presented): The process according to Claim 21, wherein the synthesis of the diamine is a hydrogenation of a dinitrile compound.

Claim 23 (Previously Presented): The process according to Claim 21, wherein the dinitrile present in the resulting reaction medium is separated before performing step a).

Claim 24 (Previously Presented): The process according to Claim 21, wherein in step a), the catalyst is in the form of a stationary or fluidized bed.

Claim 25 (Previously Presented): The process according to Claim 21, wherein in step a), the catalyst is in the form of a catalyst suspension.

Claim 26 (Previously Presented): The process according to Claim 11, wherein the diamine is hexamethylenediamine or methylpentanediamine.

Claim 27 (Previously Presented): The process according to Claim 21, wherein the diamine is hexamethylenediamine or methylpentanediamine.